

# ABSTRACT OF DISCLOSURE

A piezoelectric resonant filter includes a group of series resonators and a group of parallel resonators for forming a ladder-type filter circuit. Each of the resonators has a piezoelectric thin film 15 having piezoelectric characteristic, and lower and upper electrodes 14 and 16 disposed on opposite surfaces of the piezoelectric thin film 15 for applying an excitation voltage to the piezoelectric thin film 15. The group of the parallel resonators exhibits a low frequency side attenuation extremum in the filter whereas the group of the series resonators exhibits a high frequency side attenuation extremum in the filter. At least one of the group of the series resonators and the group of the parallel resonators has a temperature compensating layer 20 for bringing the temperature coefficient of the resonant frequency close to zero. The thickness of the temperature compensating layer 20 in the group of the series resonators is different from the thickness of the temperature compensating layer 20 in the group of the parallel resonators.

[Selected Drawing] Fig. 7